

Volume 500 issues 1-2, 19 December 2003

ANALYTICA CHIMICA ACTA

www.elsevier.com/locate/aca

CONTENTS

(Full texts are incorporated in CJELSEVIER, a file in the Chemical Journals Online database available on STN International; Abstracted, indexed in: Aluminium Abstracts; Anal. Abstr.; Biol. Abstr.; BIOSIS; Chem. Abstr.; Curr. Contents Phys. Chem. Earth Sci.; Engineered Materials Abstracts; Excerpta Medica; Index Med.; Life Sci.; Mass Spectrum. Bull.; Material Business Alerts; Metals Abstracts; Sci. Citation Index)

Special Issue

Analytical Horizons, An International Symposium celebrating the publication of Volume 500 of Analytica Chimica Acta, Ellecom, The Netherlands, 14–16 May 2003

Foreword	1
Coupled enzyme reaction microarrays based on pin-printing of sol-gel derived biomaterials	
N. Rupcich and J.D. Brennan (Hamilton, Canada)	3
H. Wang, M. Lu, N. Mei, J. Lee, M. Weinfeld and X. Chris Le (Edmonton, Canada).	13
Review - Current status of modern analytical luminescence methods	
S. Kulmala and J. Suomi (HUT, Finland)	21
F.V. Bright and C.A. Munson (Buffalo, NY, USA)	71
Review - Resonance light scattering technique used for biochemical and pharmaceutical analysis	
C.Z. Huang and Y.F. Li (Chongqing, PR China) Novel determination of cadmium ions using an enzyme self-assembled monolayer with surface plasmon resonance	105
L. May May and D.A. Russell (Norwich, UK)	119
Plasticizer-free microspheres for ionophore-based sensing and extraction based on a methyl methacrylate-decyl methacrylate copolymer matrix	
S. Peper, A. Ceresa, Y. Qin and E. Bakker (Auburn, AL, USA)	127
Spectroelectrochemical responsiveness of a freestanding, boron-doped diamond, optically transparent electrode toward ferrocene	
S. Haymond (East Lansing, MI, USA), J.K. Zak (Gliwice, Poland), Y. Show (East Lansing, MI, USA), J.E. Butler	407
(Washington, DC, USA), G.T. Babcock and G.M. Swain (East Lansing, MI, USA)	137
R. Knake and P.C. Hauser (Basel, Switzerland)	145
Investigation of equilibration and uncertainty contributions for the determination of inorganic mercury and methylmercury by isotope dilution inductively coupled plasma mass spectrometry	
R. Clough, S.T. Belt, E. Hywel Evans (Plymouth, UK), B. Fairman and T. Catterick (Teddington, UK)	155
Methodological advances for selenium speciation analysis in yeast J.R. Encinar, M. Śliwka-Kaszyńska, A. Połatajko, V. Vacchina and J. Szpunar (Pau, France)	171
Multivariate calibration. What is in chemometrics for the analytical chemist?	17.1
R. Bro (Frederiksberg, Denmark)	185
Chemometrics applied to unravel multicomponent processes and mixtures. Revisiting latest trends in multivariate resolution	
A. de Juan and R. Tauler (Barcelona, Spain)	195
Chemometric analysis of comprehensive two-dimensional gas chromatography data using cryogenic modulation L. Xie, P.J. Marriott and M. Adams (Melbourne, Australia)	211
E 710; For marrier and microsumo (monovamo, radualla)	211

Developments toward a complete micro-total analysis system for Duchenne muscular dystrophy diagnous. J.P. Ferrance, Q. Wu, B. Giordano, C. Hernandez, Y. Kwok (Charlottesville, VA, USA), K. Snow, S. Thibode (Rochester, MN, USA) and J.P. Landers (Charlottesville, VA, USA).	eau
Drug detection based on the conformational changes of calmodulin and the fluorescence of its enhance fluorescent protein fusion partner	
E. Dikici, S.K. Deo and S. Daunert (Lexington, KY, USA)	237
Review – Nanoparticle-based electrochemical DNA detection	
J. Wang (Las Cruces, NM, USA)	247
Static secondary ion mass spectrometry for organic and inorganic molecular analysis in solids	
R.V. Ham, L.V. Vaeck (Wilrijk, Belgium), A. Adriaens (Ghent, Belgium) and F. Adams (Wilrijk, Belgium).	
Review - Clinical applications of chemiluminescence	
L.J. Kricka (Philadelphia, PA, USA)	
Atrazine analysis using an amperometric immunosensor based on single-chain antibody fragments ar multi-calibrant measurement	nd regeneration-free
K. Grennan (Dublin, Ireland), G. Strachan, A.J. Porter (Aberdeen, UK), A.J. Killard and M.R. Smyth (Du Increasing the scope and power of flow-injection analysis through chemometric approaches	blin, Ireland) 28
B. Karlberg and R. Torgrip (Stockholm, Sweden)	299
Contribution of migration current to the voltammetric deposition and stripping of lead with and without a electrolyte at a mercury-free carbon fibre microdisc electrode	added supporting
S.M. Silva and A.M. Bond (Clayton, Australia)	
Seeking connectivity between engineered proteins and transducers: connection for glutathione S-tran proteins on surface plasmon resonance devices	sferase fusion
V.G. Praig and E.A.H. Hall (Cambridge, UK)	
Light emitting diode-based detectors. Absorbance, fluorescence and spectroelectrochemical measure flow-through cell	
P.K. Dasgupta, IY. Eom, K.J. Morris and J. Li (Lubbock, TX, USA)	
Review – The evolution of chemometrics	
P.K. Hopke (Potsdam, NY, USA)	
Author Index	37
Calendar of forthcoming meetings	N





This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier books and journals. You can register for **ContentsDirect** online at: http://contentsdirect.elsevier.com



Full text of this journal is available, on-line from **ScienceDirect**. Visit **www.sciencedirect.com** for more information.

